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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/201,278	11/30/1998	CHIH-LUNG (BRUCE) LIN	3382-51036	1358

7590

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EXAMINER

LE, VU

ART UNIT

PAPER NUMBER

2613

DATE MAILED: 03/26/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.
09/201,278

Applicant(s)
Lin et al.

Examiner
Vu Le

Art Unit
2613



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on Jan 8, 2002

2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1, 3-13, and 15-22 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) 1, 3-13, and 15-22 is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claims _____ are subject to restriction and/or election requirements.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

11) ☐ The proposed drawing correction filed on _____ is: a) approved b) disapproved

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) ☐ All b) ☐ Some c) ☐ None of:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a))

*See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

15) ☐ Notice of References Cited (PTO-892)

16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____

18) ☐ Interview Summary (PTO-413) Paper No(s) _____

19) ☐ Notice of Informal Patent Application (PTO 152)

20) ☐ Other

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,3-4, 7-9, 11-13, 15-19 and 20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by the article to Yu et al., "Two dimensional motion vector coding for low bitrate videophone applications" for the same reasons as set forth in ¶2 of the last Office Action (Paper No. 11).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5-6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the article to Yu et al. for the same reasons as set forth in ¶4 of the last Office Action (Paper No. 11).

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Response to Arguments

5. Applicant's arguments filed Jan. 8, 2002 have been fully considered but they are not persuasive.

Applicants contend that Yu fails to teach or suggest "the table includes the most probable pairs of joint differential motion vector components as computed by statistical analysis of example video sequences" (Paper No. 10, page 4, item 3(a)). Examiner disagrees.

The VLC table in Yu anticipates the above (p. 415, 2nd col., section 2, case 1).

Applicants contend that Yu fails to teach or suggest "wherein training determines which x and y components to include in the entropy codebook" (Paper No. 10, page 5, item 3(b)). Examiner disagrees.

Yu indeed discloses obtaining training set during test sequences. See (p. 416, 2nd col., "Simulation Results").

Applicants contend that Yu fails to teach or suggest "wherein statistical analysis indicates which differential motion vector components to represent with variable length codes and which differential motion components to represent with an escape code followed by a fixed length codes" (Paper No. 10, page 5, item 3(c)), Examiner disagrees.

Yu indeed discloses the same. See (p. 416, 1st col., case 2: DMV in Region B).

Applicants contend that Yu fails to teach or suggest "wherein training determines which joint differential motion vector components to include in the table and which joint differential

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motion vector components to exclude from the table" (Paper No. 10, page 7, item 3(d)).

Examiner disagrees.

Yu indeed discloses the above aspect. See (page 416, case 3: DMV in Region C). Note that Yu distinguishes which set of DMVs belong and not belong to which region. Thus, this will necessarily result in determining which joint differential motion vector components to include in/exclude from the table as claimed.

Applicants contend that Yu fails to teach or suggest "wherein training determines which joint x and y motion vector components to represent in the set of available variable length codes" (Paper No. 10, page 8, item 3(e)), Examiner disagrees.

This argument is redundant. The VLC table in Yu anticipates the above (p. 415, 2nd col., section 2, case 1). This response also applies for the argument in item 3(f), page 9 of Paper No. 10.

For the reasons above, Examiner's position remains unchanged.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contacts

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Vu Le whose telephone number is (703) 308-6613. The examiner can normally be reached on Monday to Friday from 8:30 AM to 5:00 PM.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4700 or Customer Service whose number is (703) 308-6789.

Very Important!

The fax number for submitting all Official communications is (703) 872-9314.

The fax number for submitting informal communications such as drafts, proposed amendments, etc., may be faxed directly to the Examiner at (703) 746-6867.


VU LE
PRIMARY EXAMINER